FIG. 1

FIG. 2

```
<?xml version="1.0"?>
<root xmlns="urn:schemas-upnp-org:device-1-0">
 <specVersion>
 <major>1</major>
 <minor>0</minor>
 </specVersion>
 <URLBase>http://192.168.0.4:5431</URLBase>
 <device>
 <deviceType>urn:schemas-upnp-org:device:tvdevice:1</deviceType>
 <friendlyName>UPnP Television Emulator</friendlyName>
 <manufacturer>TV Manufacturer Name</manufacturer>
 <manufacturerURL>http://www.manufacturer.com</manufacturerURL>
 <modelDescription>UPnP Television Device Emulator 1.0</modelDescription>
 <modelName>TVEmulator</modelName>
 <modelNumber>1.0</modelNumber>
 <modelURL>http://www.manufacturer.com/TVEmulator/</modelURL>
 <serialNumber>123456789001</serialNumber>
 <UDN>uuld:Upnp-TVEmulator-1_0-1234567890001</UDN>
 <UPC>123456789</UPC>
```
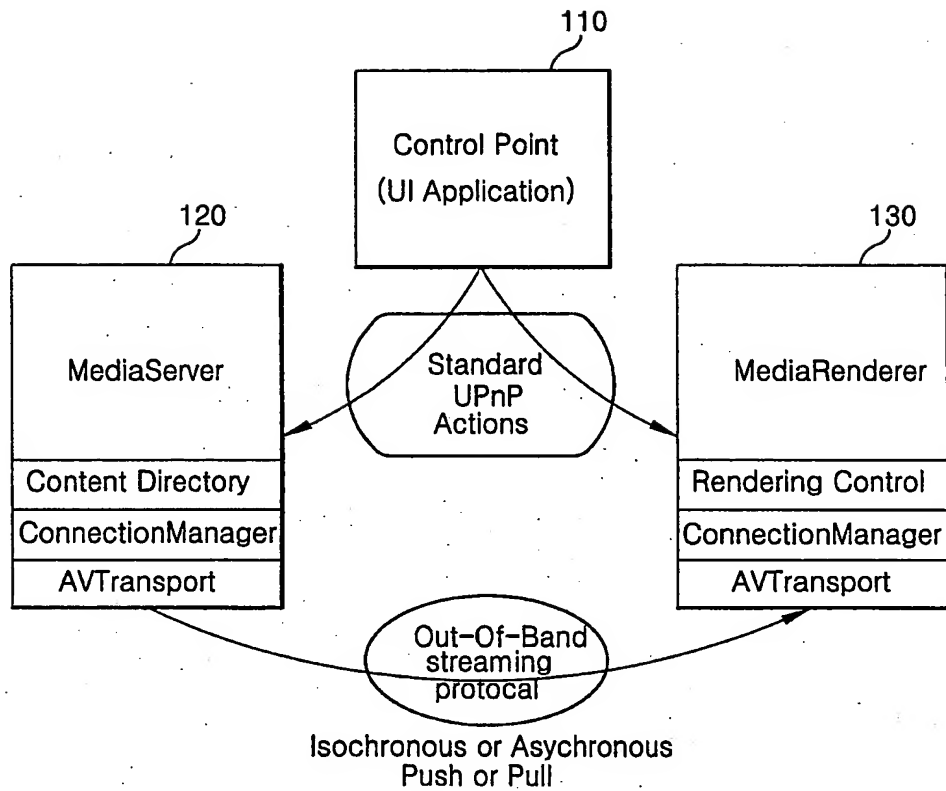
```
 <role switch> ON </ role switch>
 <roamingInfolist>
  <MediaSerer>/ MediaServer.xml </Media Server>
  <MediaRenderer>/MediaRenderer.xml </MediaRenderer>
  <Matchinginfo>/ Matching.xml</Matchinginfo>
  <Currentinfo>/Currentinfo.xml </Currentinfo>
 </roamingInfolist>
```

```
 <serviceList>
 <service>
  <serviceType>urn:schemas-upnp-org:service:tvcontrol:1</serviceType>
  <serviceId>urn:upnp-org:serviceId:tvcontrol1</serviceId>
  <controlURL>/upnp/control/tvcontrol1</controlURL>
  <eventSubURL>/upnp/event/tvcontrol1</eventSubURL>
  <SCPDURL>/tVcontrolSCPD.xml</SCPDURL>
  <service>
 </serviceList>
 <presentationURL>/tvdevicepres.html</presentationURL>
 </device>
 </root>
```

FIG. 3

```
<DIDL-Lite xmlns:dc="http://purl.org/dc/elements/1.1/"
      xmlns:upnp="urn:schemas-upnp-org:metadata-1-0/upnp/"
      xmlns="urn:schemas-upnp-org:metadata-1-0/DIDL-Lite/">
      <item id="6" parentID="3" restricted="false">
                    <dc:title>Chloe Dancer</dc:title>
                    <dc:creator>Mother Love Bone</dc:creator>
                    <upnp:class>object.item.audioItem.musicTrack</upnp:class>
                    <res protocolInfo="http:*:audio/x-ms-wma:*" size="200000">
                              http://10.0.0.1/getcontent.asp?id="6"
                    </res>
      </item>
      <item id="8" parentID="3".restricted="false">
                    <dc:title>Drown</dc:title>
                    <dc:creator>Smashing Pumpkins</dc:creator>
                    <upnp:class>object.item.audioItem.musicTrack</upnp:class>
                    <res protocolInfo="http:*:audio/x-ms-wma:*" size="140000">
                              http://10.0.0.1/getcontent.asp?id="8"
                    </res>
      </DIDL-Lite>
 <numberReturned> 3 </ numberReturned>
< totalMatches> 4 </ totalMatches>
< updateID> 18 </updateID>
```

FIG. 4

```
<protocol> http </protocol>
<network> * </network>
<type> audio/m3u </type>
<additonalInfo>*</additinalInfo>


<protocol> http </protocol>
<network> * </network>
<type> audio/wma </type>
<additionalInfo>*</additionalInfo>


<protocol> http </protocol>
<network> * </network>
<type> audio/m3u </type>
<additionalInfo>*</additionalInfo>


<protocol> http </protocol>
<network> * </network>
<type> audio/wma </type>
<additionalInfo>*</additionalInfo>
```
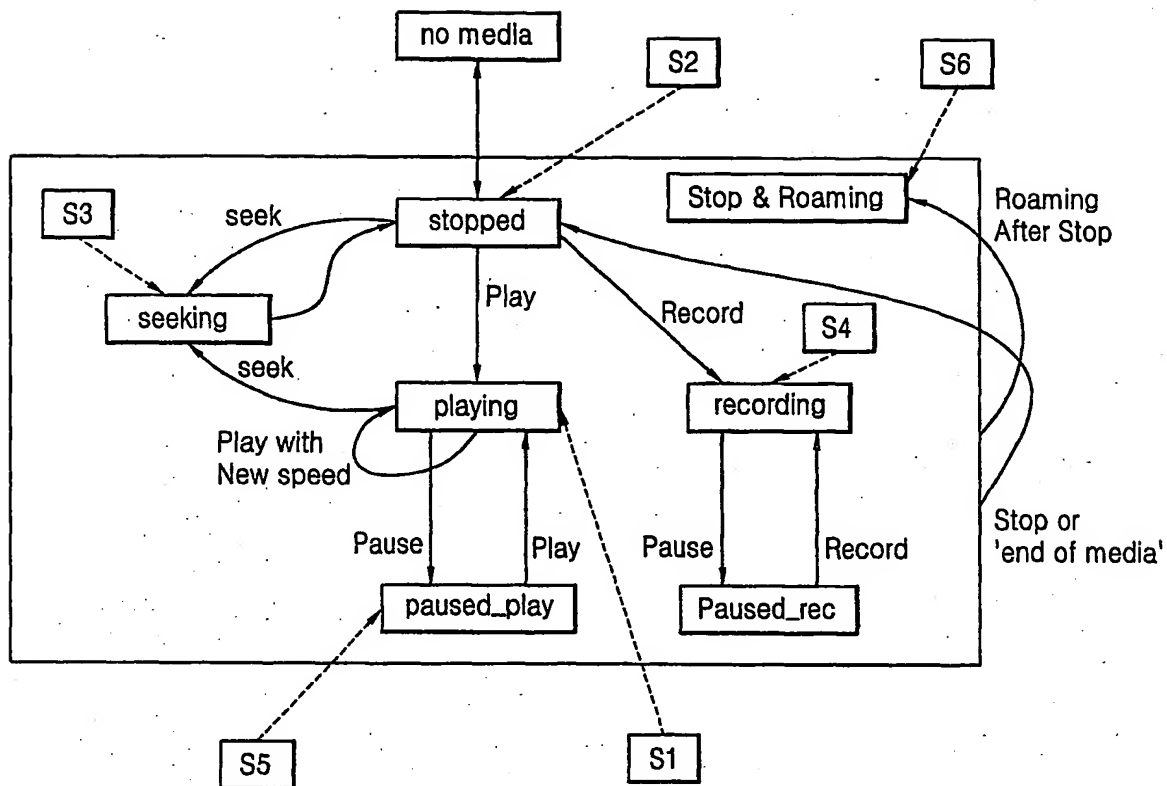
FIG. 5

FIG. 6